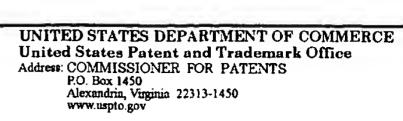


United States Patent and Trademark Office



APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
09/966,745		10/01/2001	Shlomo Yitzchaik	BURTMAN=1A	BURTMAN=1A 3709		
1444	7590	07/11/2003					
		EIMARK, P.L.L.C	EXAMINER				
624 NINTH STREET, NW SUITE 300				TRUON	TRUONG, DUC		
WASHINGTON, DC 20001-5303			ART UNIT	PAPER NUMBER			
				. 1711	13		
				DATE MAILED: 07/11/2003			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	U /				
v		09/966,745	YITZCHAIK, SHLOMO					
a)	Office Action Summary	Examin r	Art Unit					
•	,	Duc Truong	1711	٠.				
1	Th MAILING DATE of this communication app	ars on the cover shet with the	correspondence addre	ss				
Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status								
1)	Responsive to communication(s) filed on							
2a) [·	is action is non-final.						
3)	/ -							
Dispositi	ion of Claims	Ex parto Quayro, 1000 0.5. 11,	100 0.0.210.					
4) 🖂	Claim(s) 1-26 and 39-56 is/are pending in the	application.						
	4a) Of the above claim(s) is/are withdraw	vn from consideration.						
5)	Claim(s) is/are allowed.							
6)⊠	6)⊠ Claim(s) <u>1-26 and 39-56</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
<u>, —</u>	Claim(s) are subject to restriction and/o	r election requirement.						
	ion Papers The appeignation is abjected to by the Everying	.						
,	The specification is objected to by the Examine The drawing(s) filed onis/are:o\□accor		aminar					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)	☐ All b)☐ Some * c)☐ None of:							
	1. Certified copies of the priority documents	s have been received.						
	2. Certified copies of the priority documents	s have been received in Applica	tion No					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
14) 🗌 A	Acknowledgment is made of a claim for domesti	c priority under 35 U.S.C. § 119	(e) (to a provisional ap	plication).				
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)								
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) 98	5) Notice of Informal	ry (PTO-413) Paper No(s). Patent Application (PTO-15					

⁴Application/Control Number: 09/966,745

Art Unit: 1711

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-26 and 39-56 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kubono in view of Forrest, both of record on 1449.

Kubono discloses the vapor deposition of -conjugated polymers in that the molecular orientation in films of the polymers can be perpendicular or parallel to the substrate (see page 420).

In order to fabricate polymer thin films with a molecular orientation perpendicular to the substrate, a mechanism for the vapor deposition of linear long chain molecules (see page 396), , can be applied to the VDP process (see page 425, section 4.2).

The disclosure of the reference differs from the instant claims in that it does not disclose specific components nor the use in the claimed of forming monolayer and multi-layered structure.

Forrest discloses the cryatalline order of compounds such as perylene tetracarboxylic dianhydride or naphthalene tetracarboxylic dianhydride,---,on a variety of substrate, deposited in both monolayer and multi-layer thin-film stacks using the ultrahigh-vacuum process organic molecular beam deposition, to have vacuum quasiepitaxial growth of thin films.

It would have been obvious to one of ordinary skill in the art to select the dianhydrides from the Forrest reference to determine the conjugated polymers, as disclosed in Kubono, in the method of forming a multi-layered structure, in order to gain the advantages of the combination of the references, that being a epitaxial vapor deposition polymerization can be used with reactants such as dianhydrides in the method of forming a multi-layered structure, to have the crystalline order in Z-axis oriented. Forrest provides evidence that perylene tetracarboxylic dianhydride and naphthalene tetracarboxylic dianhydride is well known in the art in the epitaxial vapor deposition polymerization to form a multi-layered structure.

The determination of said reactants in the claimed method to form a multi-layered structure would nor provide an unexpected result to one of ordinary skill in the art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc Truong whose telephone number is 703-308-2437. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on 703-308-2462. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

DUCTRUONG PRIMARY EXAMINER